

Listing of all claims as amended

- 5 1.(ORIGINAL) A peptide selected from the group having the formulae:
R₁-A⁰-A¹-A²-Asp-Ala-A⁵-A⁶-Thr-A⁸-A⁹-A¹⁰-A¹¹-A¹²-Val-Leu-A¹⁵-A¹⁶-Leu-Ser-A¹⁹-A²⁰-A²¹-A²²-Leu-Gln-
Asp-Ile-A²⁷-A²⁸-A²⁹-A³⁰-R₂
wherein R₁ is a member of the group consisting of a) PhAc, Hca, Dat, IndAc, Ipa, 1-Nac, 2-Nac, 1-Npr, 2-Npr, Ibu; CH₃(CH₂)_nCO, or HOOC(CH₂)_nCO, where n is an integer from 2 to 20,
10 and b) any other straight chain, branch chain, saturated, unsaturated or poly unsaturated aliphatic carboxyl group of 2-30 carbon atoms and any carbocyclic or heterocyclic aromatic carboxyl group of 3-8 carbon atoms containing at least one atom of the group S, N, and O in the heterocyclic ring,
A⁰ is Phe, D-Phe, Arg, D-Arg, or a carbon-nitrogen single bond,
A¹ is Tyr or His,
15 A² is D-Arg or D-Cit,
A⁵ is Ile or Val,
A⁶ is Phe, Tyr, Nal, or Phe(Y), in which Y=F, Cl, Br, or I,
A⁸ is Asn, D-Asn, Cit, D-Cit, Gln, D-Gln, Ser, D-Ser, Thr, D-Thr, Ala, D-Ala, Abu, D-Abu, or Aib,
A⁹ is His, D-His, Amp, D-Amp, Gup, or D-Gup,
20 A¹⁰ is Tyr, Tyr(Et), Tyr(Me); Phe(Y), in which Y=H, F, Cl, Br, or I; Amp, His, Cha, Chg, Bpa, Dip, Trp, Trp(For), Tpi, 1-Nal, 2-Nal, 3-Pal, 4-Pal, Phe(NH₂), or Phe(NO₂),
A¹¹ is His, D-His, Arg, D-Arg, Cit, Har, D-Har, Amp, D-Amp, Gup, or D-Gup,
A¹² is Lys, D-Lys, Orn, D-Orn, Har, D-Har, Cit, D-Cit, Nle, or Ala,
A¹⁵ is Gly, Ala, Abu, Aib, Nle, Gln, Cit, or His,
25 A¹⁶ is Gln or Arg,
A¹⁹ is Ala or Abu,
A²⁰ is His, D-His, Arg, D-Arg, or Cit,
A²¹ is Lys, D-Lys, Orn, D-Orn, Cit, or D-Cit,
A²² is Leu, Ala or Aib,
30 A²⁷ is Met, Leu, Nle, Abu, or D-Arg,
A²⁸ is Arg, D-Arg, Har, D-Har, Ser, Asn, Asp, Ala, Abu, or Cit,
A²⁹ is Arg, D-Arg, Har, D-Har, Cit, D-Cit, or Agm,
A³⁰ is Arg, D-Arg, Har, D-Har, Cit, D-Cit, Agm, or is a carbon-nitrogen or carbon-oxygen single bond,
35 R₂ is -NH₂, -NH-NH₂, -NH-OH, -NHR₃, -NR₃R₄, -OH, or -OR₃, in which R₃ and R₄ are any of C₁₋₁₀ alkyl, C₂₋₁₀ alkenyl, C₂₋₁₀ alkynyl, C₇₋₁₈ phenylalkyl, -C₆H₅, or -CH(C₆H₅)₂; provided that if A²⁹ is Agm then A³⁰ and R₂ are absent, and if A³⁰ is Agm then R₂ is absent, and pharmaceutically acceptable salts thereof.

2. (ORIGINAL) The compound of claim 1 wherein one or both of A¹¹ and A²⁰ are other than
40 Arg, D-Arg, or Cit.

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3. (ORIGINAL) A compound of claim 1 selected from the group consisting of:

5 [PhAc-Tyr¹, D-Arg², Phe(pCl)⁶, Amp⁹, Tyr(Me)¹⁰, Abu¹⁵, Nle²⁷, D-Arg²⁸, Har²⁹]hGH-RH(1-29)NH₂
Peptide 67

[PhAc-Tyr¹, D-Arg², Phe(pCl)⁶, Amp⁹, Abu¹⁵, Nle²⁷, D-Arg²⁸, Har²⁹]hGH-RH(1-29)NH₂
Peptide 68

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[PhAc-Tyr¹, D-Arg², Phe(pCl)⁶, His⁹, Tyr(Me)¹⁰, Abu¹⁵, Nle²⁷, D-Arg²⁸, Har²⁹]hGH-RH(1-29)NH₂
Peptide 69

[CH₃(CH₂)₈CO-Tyr¹, D-Arg², Phe(pCl)⁶, Amp⁹, Tyr(Me)¹⁰, Abu¹⁵, Nle²⁷, D-Arg²⁸, Har²⁹]hGH-RH(1-29)NH₂
Peptide 70

[HOOC(CH₂)₈CO-Tyr¹, D-Arg², Phe(pCl)⁶, Amp⁹, Tyr(Me)¹⁰, Abu¹⁵, Nle²⁷, D-Arg²⁸, Har²⁹]hGH-RH(1-29)NH₂
Peptide 71

20 [HOOC(CH₂)₁₂CO-Tyr¹, D-Arg², Phe(pCl)⁶, Amp⁹, Tyr(Me)¹⁰, Abu¹⁵, Nle²⁷, D-Arg²⁸, Har²⁹]hGH-RH(1-29)NH₂
Peptide 72

[PhAc-Tyr¹, D-Arg², Phe(pCl)⁶, Amp⁹, Tyr(Me)¹⁰, His¹¹, Abu¹⁵, Nle²⁷, D-Arg²⁸, Har²⁹]hGH-RH(1-29)NH₂
Peptide 73

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[PhAc-Tyr¹, D-Arg², Phe(pCl)⁶, Cit⁸, Amp⁹, Tyr(Me)¹⁰, His¹¹, Abu¹⁵, Nle²⁷, D-Arg²⁸, Har²⁹]hGH-RH(1-29)NH₂
Peptide 74

30 [1-Nac-Tyr¹, D-Arg², Phe(pCl)⁶, Cit⁸, Amp⁹, Tyr(Me)¹⁰, His¹¹, Abu¹⁵, Nle²⁷, D-Arg²⁸, Har²⁹]hGH-RH(1-29)NH₂
Peptide 75

[CH₃(CH₂)₆CO-Tyr¹, D-Arg², Phe(pCl)⁶, Cit⁸, Amp⁹, Tyr(Me)¹⁰, His¹¹, Abu¹⁵, Nle²⁷, D-Arg²⁸, Har²⁹]hGH-RH(1-29)NH₂
Peptide 76

35 [HOOC(CH₂)₁₂CO-Tyr¹, D-Arg², Phe(pCl)⁶, Cit⁸, Amp⁹, Tyr(Me)¹⁰, His¹¹, Abu¹⁵, Nle²⁷, D-Arg²⁸, Har²⁹]hGH-RH(1-29)NH₂
Peptide 77

[CH₃(CH₂)₆CO-Tyr¹, D-Arg², Phe(pCl)⁶, Cit⁸, Amp⁹, Tyr(Et)¹⁰, His¹¹, Abu¹⁵, Nle²⁷, D-Arg²⁸, Har²⁹]hGH-RH(1-29)NH₂
Peptide 78

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[CH₃(CH₂)₈CO -Tyr¹, D-Arg², Phe(pCl)⁶, Cit⁸, His⁹, Tyr(Et)¹⁰, His¹¹, Abu¹⁵, Nle²⁷, D-Arg²⁸,
Har²⁹]hGH-RH(1-29)NH₂ Peptide 79

[CH₃(CH₂)₈CO -Tyr¹, D-Arg², Phe(pCl)⁶, Ala⁸, His⁹, Tyr(Et)¹⁰, His¹¹, Abu¹⁵, Nle²⁷, D-Arg²⁸,
5 Har²⁹]hGH-RH(1-29)NH₂ Peptide 80

[HOOC(CH₂)₈CO -Tyr¹, D-Arg², Phe(pCl)⁶, Ala⁸, His⁹, Tyr(Et)¹⁰, His¹¹, Abu¹⁵, Nle²⁷, D-Arg²⁸,
Har²⁹]hGH-RH(1-29)NH₂ Peptide 81

10 [HOOC(CH₂)₁₂CO -Tyr¹, D-Arg², Phe(pCl)⁶, Ala⁸, His⁹, Tyr(Et)¹⁰, His¹¹, Abu¹⁵, Nle²⁷, D-Arg²⁸,
Har²⁹]hGH-RH(1-29)NH₂ Peptide 82

[CH₃(CH₂)₈CO-Tyr¹, D-Arg², Phe(pCl)⁶, Ala⁸, His⁹, Tyr(Et)¹⁰, His¹¹, Abu¹⁵, His²⁰, Nle²⁷, D-Arg²⁸,
Har²⁹]hGH-RH(1-29)NH₂ Peptide 86

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[CH₃(CH₂)₈CO-Tyr¹, D-Arg², Phe(pCl)⁶, Ala⁸, Amp⁹, Tyr(Et)¹⁰, His¹¹, Abu¹⁵, His²⁰, Nle²⁷, D-Arg²⁸,
Har²⁹]hGH-RH(1-29)NH₂ Peptide 87

[HOOC(CH₂)₁₂CO-Tyr¹, D-Arg², Phe(pCl)⁶, Ala⁸, His⁹, Tyr(Et)¹⁰, His¹¹, Abu¹⁵, His²⁰, Nle²⁷, D-Arg²⁸,
20 Har²⁹]hGH-RH(1-29)NH₂ Peptide 88

[HOOC(CH₂)₁₂CO-Tyr¹, D-Arg², Phe(pCl)⁶, Ala⁸, Amp⁹, Tyr(Et)¹⁰, His¹¹, Abu¹⁵, His²⁰, Nle²⁷, D-Arg²⁸,
Har²⁹]hGH-RH(1-29)NH₂ Peptide 89

25 [1-Nac-Tyr¹, D-Arg², Phe(pCl)⁶, Ala⁸, His⁹, Tyr(Et)¹⁰, His¹¹, Abu¹⁵, Nle²⁷, D-Arg²⁸, Har²⁹]hGH-RH(1-
29)NH₂ Peptide 91

[CH₃(CH₂)₈CO -Tyr¹, D-Arg², Phe(pCl)⁶, His⁹, Tyr(Et)¹⁰, His¹¹, Abu¹⁵, Nle²⁷, D-Arg²⁸, Har²⁹]hGH-
RH(1-29)NH₂ Peptide 92

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[CH₃(CH₂)₈CO -Tyr¹, D-Arg², Phe(pCl)⁶, Ala⁸, His⁹, Cit¹⁵, Nle²⁷, D-Arg²⁸, Har²⁹]hGH-RH(1-29)NH₂
Peptide 93

[CH₃(CH₂)₈CO-Tyr¹, D-Arg², Phe(pCl)⁶, Ala⁸, His⁹, Tyr(Et)¹⁰, His¹¹, His¹⁵, His²⁰, Nle²⁷, D-Arg²⁸,
35 Har²⁹]hGH-RH(1-29)NH₂ Peptide 94

[CH₃(CH₂)₈CO -Tyr¹, D-Arg², Phe(pCl)⁶, Ala⁸, His⁹, Tyr(Et)¹⁰, His¹¹, Orn¹², Abu¹⁵, Orn²¹, Nle²⁷, D-
Arg²⁸, Har²⁹]hGH-RH(1-29)NH₂ Peptide 95

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[CH₃(CH₂)₆CO -Tyr¹, D-Arg², Phe(pCl)⁶, Ala⁸, His⁹, Tyr(Et)¹⁰, His¹¹, Orn¹², Abu¹⁵, His²⁰, Orn²¹, Nle²⁷,
D-Arg²⁸, Har²⁹]hGH-RH(1-29)NH₂ Peptide 96

[CH₃(CH₂)₆CO -Tyr¹, D-Arg², Phe(pCl)⁶, Ala⁸, His⁹, Tyr(Et)¹⁰, His¹¹, Abu¹⁵, Nle²⁷, D-Arg²⁸,
5 Har²⁹]hGH-RH(1-29)NH₂ Peptide 97

[CH₃(CH₂)₈CO -Tyr¹, D-Arg², Phe(pCl)⁶, Ala⁸, His⁹, Tyr(Et)¹⁰, His¹¹, Abu¹⁵, Nle²⁷, D-Arg²⁸,
Har²⁹]hGH-RH(1-29)NH₂ Peptide 98

10 [CH₃(CH₂)₁₀CO -Tyr¹, D-Arg², Phe(pCl)⁶, Ala⁸, His⁹, Tyr(Et)¹⁰, His¹¹, Abu¹⁵, Nle²⁷, D-Arg²⁸,
Har²⁹]hGH-RH(1-29)NH₂ Peptide 99

[Hca -Tyr¹, D-Arg², Phe(pCl)⁶, Ala⁸, His⁹, Tyr(Et)¹⁰, His¹¹, Abu¹⁵, Nle²⁷, D-Arg²⁸, Har²⁹]hGH-RH(1-
29)NH₂ Peptide 100

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[CH₃(CH₂)₆CO -Tyr¹, D-Arg², Phe(pCl)⁶, Ala⁸, His⁹, Tyr(Et)¹⁰, His¹¹, Abu¹⁵, Nle²⁷, D-Arg²⁸,
Har²⁹]hGH-RH(1-29)NHMe Peptide 101

[HOOC(CH₂)₁₂CO -Tyr¹, D-Arg², Phe(pCl)⁶, Ala⁸, His⁹, Tyr(Et)¹⁰, His¹¹, Orn¹², Abu¹⁵, His²⁰, Orn²¹,
20 Nle²⁷, D-Arg²⁸, Har²⁹]hGH-RH(1-29)NH₂ Peptide 102

[CH₃(CH₂)₆CO -Tyr¹, D-Arg², Phe(pCl)⁶, Ala⁸, Amp⁹, Tyr(Et)¹⁰, His¹¹, Orn¹², Abu¹⁵, His²⁰, Orn²¹,
Nle²⁷, D-Arg²⁸, Har²⁹]hGH-RH(1-29)NH₂ Peptide 103

25 [CH₃(CH₂)₆CO -Tyr¹, D-Arg², Phe(pCl)⁶, Ala⁸, His⁹, Dip¹⁰, His¹¹, Orn¹², Abu¹⁵, His²⁰, Orn²¹, Nle²⁷, D-
Arg²⁸, Har²⁹]hGH-RH(1-29)NH₂ Peptide 104

[CH₃(CH₂)₆CO -Tyr¹, D-Arg², Phe(pCl)⁶, Ala⁸, His⁹, Phe(pNO₂)¹⁰, His¹¹, Orn¹², Abu¹⁵, His²⁰, Orn²¹,
Nle²⁷, D-Arg²⁸, Har²⁹]hGH-RH(1-29)NH₂ Peptide 105

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[CH₃(CH₂)₈CO -Tyr¹, D-Arg², Phe(pCl)⁶, Ala⁸, His⁹, Tyr(Et)¹⁰, His¹¹, Orn¹², Abu¹⁵, His²⁰, Orn²¹, Nle²⁷,
D-Arg²⁸, Har²⁹]hGH-RH(1-29)NH₂ Peptide 106

[HOOC(CH₂)₁₂CO -Tyr¹, D-Arg², Phe(pCl)⁶, Ala⁸, Amp⁹, Tyr(Et)¹⁰, His¹¹, Orn¹², Abu¹⁵, His²⁰, Orn²¹,
35 Nle²⁷, D-Arg²⁸, Har²⁹]hGH-RH(1-29)NH₂ Peptide 107

[HOOC(CH₂)₁₂CO -Tyr¹, D-Arg², Phe(pCl)⁶, Ala⁸, His⁹, Dip¹⁰, His¹¹, Orn¹², Abu¹⁵, His²⁰, Orn²¹, Nle²⁷,
D-Arg²⁸, Har²⁹]hGH-RH(1-29)NH₂ Peptide 108

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[HOOC(CH₂)₁₂CO -Tyr¹, D-Arg², Phe(pCl)⁶, Ala⁸, His⁹, Phe(pNO₂)¹⁰, His¹¹, Orn¹², Abu¹⁵, His²⁰, Orn²¹, Nle²⁷, D-Arg²⁸, Har²⁹]hGH-RH(1-29)NH₂ Peptide 109

[HOOC(CH₂)₁₂CO -Tyr¹, D-Arg², Phe(pCl)⁶, Ala⁸, His⁹, Tyr(Et)¹⁰, His¹¹, Orn¹², Abu¹⁵, His²⁰, Orn²¹, 5 Nle²⁷, D-Arg²⁸, Har²⁹]hGH-RH(1-29)NH₂ Peptide 110

[CH₃(CH₂)₆CO -Tyr¹, D-Arg², Phe(pCl)⁶, Ala⁸, Amp⁹, Dip¹⁰, His¹¹, Orn¹², Abu¹⁵, His²⁰, Orn²¹, Nle²⁷, D-Arg²⁸, Har²⁹]hGH-RH(1-29)NH₂ Peptide 111

10 [CH₃(CH₂)₆CO -Tyr¹, D-Arg², Phe(pCl)⁶, Ala⁸, Amp⁹, Phe(pNO₂)¹⁰, His¹¹, Orn¹², Abu¹⁵, His²⁰, Orn²¹, Nle²⁷, D-Arg²⁸, Har²⁹]hGH-RH(1-29)NH₂ Peptide 112

[CH₃(CH₂)₆CO -Tyr¹, D-Arg², Phe(pCl)⁶, Ala⁸, Amp⁹, Tyr(Et)¹⁰, His¹¹, Orn¹², Abu¹⁵, His²⁰, Orn²¹, Nle²⁷, D-Arg²⁸, Har²⁹]hGH-RH(1-29)NH₂ Peptide 113

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[CH₃(CH₂)₆CO -Tyr¹, D-Arg², Phe(pCl)⁶, Ala⁸, His⁹, Dip¹⁰, His¹¹, Orn¹², Abu¹⁵, His²⁰, Orn²¹, Nle²⁷, D-Arg²⁸, Har²⁹]hGH-RH(1-29)NH₂ Peptide 114

[CH₃(CH₂)₆CO -Tyr¹, D-Arg², Phe(pCl)⁶, Ala⁸, His⁹, Phe(pNO₂)¹⁰, His¹¹, Orn¹², Abu¹⁵, His²⁰, Orn²¹, 20 Nle²⁷, D-Arg²⁸, Har²⁹]hGH-RH(1-29)NH₂ Peptide 115

[HOOC(CH₂)₁₂CO -Tyr¹, D-Arg², Phe(pCl)⁶, Ala⁸, Amp⁹, Dip¹⁰, His¹¹, Orn¹², Abu¹⁵, His²⁰, Orn²¹, Nle²⁷, D-Arg²⁸, Har²⁹]hGH-RH(1-29)NH₂ Peptide 116

25 [HOOC(CH₂)₁₂CO -Tyr¹, D-Arg², Phe(pCl)⁶, Ala⁸, Amp⁹, Phe(pNO₂)¹⁰, His¹¹, Orn¹², Abu¹⁵, His²⁰, Orn²¹, Nle²⁷, D-Arg²⁸, Har²⁹]hGH-RH(1-29)NH₂ Peptide 117

[CH₃(CH₂)₆CO -Tyr¹, D-Arg², Phe(pCl)⁶, Ala⁸, Amp⁹, Dip¹⁰, His¹¹, Orn¹², Abu¹⁵, His²⁰, Orn²¹, Nle²⁷, D-Arg²⁸, Har²⁹]hGH-RH(1-29)NH₂ Peptide 118

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[CH₃(CH₂)₆CO -Tyr¹, D-Arg², Phe(pCl)⁶, Ala⁸, Amp⁹, Phe(pNO₂)¹⁰, His¹¹, Orn¹², Abu¹⁵, His²⁰, Orn²¹, Nle²⁷, D-Arg²⁸, Har²⁹]hGH-RH(1-29)NH₂ Peptide 119

[HOOC(CH₂)₁₂CO -Tyr¹, D-Arg², Phe(pCl)⁶, Ala⁸, Amp⁹, Dip¹⁰, His¹¹, Orn¹², Abu¹⁵, His²⁰, Orn²¹, 35 Nle²⁷, D-Arg²⁸, Har²⁹]hGH-RH(1-29)NH₂ Peptide 120

[HOOC(CH₂)₁₂CO -Tyr¹, D-Arg², Phe(pCl)⁶, Ala⁸, Amp⁹, Phe(pNO₂)¹⁰, His¹¹, Orn¹², Abu¹⁵, His²⁰, Orn²¹, Nle²⁷, D-Arg²⁸, Har²⁹]hGH-RH(1-29)NH₂ Peptide 121

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4. (ORIGINAL) A compound of claim 3 selected from the group consisting of:

[PhAc-Tyr¹, D-Arg², Phe(pCl)⁶, Amp⁹, Tyr(Me)¹⁰, Abu¹⁵, Nle²⁷, D-Arg²⁸, Har²⁹]hGH-RH(1-29)NH₂
Peptide 67

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[PhAc-Tyr¹, D-Arg², Phe(pCl)⁶, His⁹, Tyr(Me)¹⁰, Abu¹⁵, Nle²⁷, D-Arg²⁸, Har²⁹]hGH-RH(1-29)NH₂
Peptide 69

[CH₃(CH₂)₆CO-Tyr¹, D-Arg², Phe(pCl)⁶, Amp⁹, Tyr(Me)¹⁰, Abu¹⁵, Nle²⁷, D-Arg²⁸, Har²⁹]hGH-RH(1-10 29)NH₂
Peptide 70

[HOOC(CH₂)₁₂CO-Tyr¹, D-Arg², Phe(pCl)⁶, Amp⁹, Tyr(Me)¹⁰, Abu¹⁵, Nle²⁷, D-Arg²⁸, Har²⁹]hGH-RH(1-29)NH₂
Peptide 72

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[CH₃(CH₂)₆CO-Tyr¹, D-Arg², Phe(pCl)⁶, Cit⁸, Amp⁹, Tyr(Me)¹⁰, His¹¹, Abu¹⁵, Nle²⁷, D-Arg²⁸, Har²⁹]hGH-RH(1-29)NH₂
Peptide 76

[HOOC(CH₂)₁₂CO-Tyr¹, D-Arg², Phe(pCl)⁶, Cit⁸, Amp⁹, Tyr(Me)¹⁰, His¹¹, Abu¹⁵, Nle²⁷, D-Arg²⁸, 20 Har²⁹]hGH-RH(1-29)NH₂
Peptide 77

[CH₃(CH₂)₆CO-Tyr¹, D-Arg², Phe(pCl)⁶, Cit⁸, His⁹, Tyr(Et)¹⁰, His¹¹, Abu¹⁵, Nle²⁷, D-Arg²⁸, Har²⁹]hGH-RH(1-29)NH₂
Peptide 79

25 [CH₃(CH₂)₆CO-Tyr¹, D-Arg², Phe(pCl)⁶, Ala⁸, His⁹, Tyr(Et)¹⁰, His¹¹, Abu¹⁵, Nle²⁷, D-Arg²⁸, Har²⁹]hGH-RH(1-29)NH₂
Peptide 80

[CH₃(CH₂)₆CO-Tyr¹, D-Arg², Phe(pCl)⁶, Ala⁸, His⁹, Tyr(Et)¹⁰, His¹¹, Abu¹⁵, His²⁰, Nle²⁷, D-Arg²⁸, Har²⁹]hGH-RH(1-29)NH₂
Peptide 86

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[CH₃(CH₂)₆CO-Tyr¹, D-Arg², Phe(pCl)⁶, Ala⁸, His⁹, Tyr(Et)¹⁰, His¹¹, Orn¹², Abu¹⁵, Orn²¹, Nle²⁷, D-Arg²⁸, Har²⁹]hGH-RH(1-29)NH₂
Peptide 95

[CH₃(CH₂)₆CO-Tyr¹, D-Arg², Phe(pCl)⁶, Ala⁸, His⁹, Tyr(Et)¹⁰, His¹¹, Orn¹², Abu¹⁵, His²⁰, Orn²¹, Nle²⁷, 35 D-Arg²⁸, Har²⁹]hGH-RH(1-29)NH₂
Peptide 96

[CH₃(CH₂)₆CO-Tyr¹, D-Arg², Phe(pCl)⁶, Ala⁸, His⁹, Tyr(Et)¹⁰, His¹¹, Abu¹⁵, Nle²⁷, D-Arg²⁸, Har²⁹]hGH-RH(1-29)NH₂
Peptide 97

40 5. (ORIGINAL)

A compound selected from the group consisting of:

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[CH₃(CH₂)₄CO-Tyr¹, D-Arg², Phe(pCl)⁶, Arg⁹, Abu¹⁵, Nle²⁷, D-Arg²⁸, Har²⁹]hGH-RH(1-29)NH₂
Peptide 2

5 [HOOC(CH₂)₄CO-Tyr¹, D-Arg², Phe(pCl)⁶, Arg⁹, Abu¹⁵, Nle²⁷, D-Arg²⁸, Har²⁹]hGH-RH(1-29)NH₂
Peptide 3

[CH₃(CH₂)₆CO-Tyr¹, D-Arg², Phe(pCl)⁶, Arg⁹, Abu¹⁵, Nle²⁷, D-Arg²⁸, Har²⁹]hGH-RH(1-29)NH₂
Peptide 4

10 [HOOC(CH₂)₆CO-Tyr¹, D-Arg², Phe(pCl)⁶, Arg⁹, Abu¹⁵, Nle²⁷, D-Arg²⁸, Har²⁹]hGH-RH(1-29)NH₂
Peptide 5

[CH₃(CH₂)₈CO-Tyr¹, D-Arg², Phe(pCl)⁶, Arg⁹, Abu¹⁵, Nle²⁷, D-Arg²⁸, Har²⁹]hGH-RH(1-29)NH₂
15 Peptide 6

[HOOC(CH₂)₈CO-Tyr¹, D-Arg², Phe(pCl)⁶, Arg⁹, Abu¹⁵, Nle²⁷, D-Arg²⁸, Har²⁹]hGH-RH(1-29)NH₂
Peptide 7

20 [CH₃(CH₂)₁₀CO-Tyr¹, D-Arg², Phe(pCl)⁶, Arg⁹, Abu¹⁵, Nle²⁷, D-Arg²⁸, Har²⁹]hGH-RH(1-29)NH₂
Peptide 8

[HOOC(CH₂)₁₀CO-Tyr¹, D-Arg², Phe(pCl)⁶, Arg⁹, Abu¹⁵, Nle²⁷, D-Arg²⁸, Har²⁹]hGH-RH(1-29)NH₂
Peptide 9

25 [CH₃(CH₂)₁₂CO-Tyr¹, D-Arg², Phe(pCl)⁶, Arg⁹, Abu¹⁵, Nle²⁷, D-Arg²⁸, Har²⁹]hGH-RH(1-29)NH₂
Peptide 10

[HOOC(CH₂)₁₂CO-Tyr¹, D-Arg², Phe(pCl)⁶, Arg⁹, Abu¹⁵, Nle²⁷, D-Arg²⁸, Har²⁹]hGH-RH(1-29)NH₂
30 Peptide 11

[CH₃(CH₂)₁₄CO-Tyr¹, D-Arg², Phe(pCl)⁶, Arg⁹, Abu¹⁵, Nle²⁷, D-Arg²⁸, Har²⁹]hGH-RH(1-29)NH₂
Peptide 12

35 [HOOC(CH₂)₁₄CO-Tyr¹, D-Arg², Phe(pCl)⁶, Arg⁹, Abu¹⁵, Nle²⁷, D-Arg²⁸, Har²⁹]hGH-RH(1-29)NH₂
Peptide 13

[CH₃(CH₂)₆CO-Tyr¹, D-Arg², Phe(pCl)⁶, Arg⁹, Abu¹⁵, Nle²⁷, Har²⁸, D-Arg²⁹]hGH-RH(1-29)NH₂
Peptide 14

40

9

[PhAc-Tyr¹, D-Arg², Phe(pCl)⁶, Arg⁹, Abu¹⁵, Nle²⁷, Har²⁸, D-Arg²⁹]hGH-RH(1-29)NH₂
Peptide 15

5 [CH₃(CH₂)₁₄CO-Phe⁰, D-Arg², Phe(pCl)⁶, Arg⁹, Abu¹⁵, Nle²⁷, D-Arg²⁸, Har²⁹]hGH-RH(1-29)NH₂
Peptide 16

[CH₃(CH₂)₁₄CO-D-Phe⁰, D-Arg², Phe(pCl)⁶, Arg⁹, Abu¹⁵, Nle²⁷, D-Arg²⁸, Har²⁹]hGH-RH(1-29)NH₂
Peptide 17

10 [PhAc-Arg⁰, D-Arg², Phe(pCl)⁶, Arg⁹, Abu¹⁵, Nle²⁷, D-Arg²⁸, Har²⁹]hGH-RH(1-29)NH₂
Peptide 18

[PhAc-D-Arg⁰, D-Arg², Phe(pCl)⁶, Arg⁹, Abu¹⁵, Nle²⁷, D-Arg²⁸, Har²⁹]hGH-RH(1-29)NH₂
Peptide 19
15

[PhAc-Tyr¹, D-Arg², Phe(pCl)⁶, Cit⁸, Arg⁹, Abu¹⁵, Nle²⁷, D-Arg²⁸, Har²⁹]hGH-RH(1-29)NH₂
Peptide 21

[PhAc-Tyr¹, D-Arg², Phe(pCl)⁶, Cit⁸, Cit⁹, Abu¹⁵, Nle²⁷, D-Arg²⁸, Har²⁹]hGH-RH(1-29)NH₂
Peptide 22
20

[PhAc-Tyr¹, D-Arg², Phe(pCl)⁶, Cit⁸, Arg⁹, Abu¹⁵, Nle²⁷, Har²⁸, D-Arg²⁹]hGH-RH(1-29)NH₂
Peptide 23

25 [PhAc-Tyr¹, D-Arg², Phe(pCl)⁶, Cit⁸, Cit⁹, Abu¹⁵, Nle²⁷, Har²⁸, D-Arg²⁹]hGH-RH(1-29)NH₂
Peptide 24

[HOOC(CH₂)₁₂CO-Tyr¹, D-Arg², Phe(pCl)⁶, Cit⁸, Cit⁹, Abu¹⁵, Nle²⁷, D-Arg²⁸, Har²⁹]hGH-RH(1-29)NH₂
Peptide 25
30

[PhAc-Tyr¹, D-Arg², Phe(pCl)⁶, D-Ala⁸, Arg⁹, Abu¹⁵, Nle²⁷, D-Arg²⁸, Har²⁹]hGH-RH(1-29)NH₂
Peptide 26

[PhAc-Tyr¹, D-Arg², Phe(pCl)⁶, Abu⁸, Arg⁹, Abu¹⁵, Nle²⁷, D-Arg²⁸, Har²⁹]hGH-RH(1-29)NH₂
Peptide 27
35

[PhAc-Tyr¹, D-Arg², Phe(pCl)⁶, Cit⁸, Abu¹⁵, Nle²⁷, Har²⁸, D-Arg²⁹]hGH-RH(1-29)NH₂
Peptide 28

10

[PhAc-Tyr¹, D-Arg², Phe(pCl)⁶, Arg⁹, Amp¹⁰, Abu¹⁵, Nle²⁷, D-Arg²⁸, Har²⁹]hGH-RH(1-29)NH₂
Peptide 30

5 [PhAc-Tyr¹, D-Arg², Phe(pCl)⁶, Har⁹, Amp¹⁰, Abu¹⁵, Nle²⁷, D-Arg²⁸, Har²⁹]hGH-RH(1-29)NH₂
Peptide 31

[PhAc-Tyr¹, D-Arg², Phe(pCl)⁶, Arg⁹, His¹⁰, Abu¹⁵, Nle²⁷, D-Arg²⁸, Har²⁹]hGH-RH(1-29)NH₂
Peptide 32

10 [PhAc-Tyr¹, D-Arg², Phe(pCl)⁶, Arg⁹, Cha¹⁰, Abu¹⁵, Nle²⁷, D-Arg²⁸, Har²⁹]hGH-RH(1-29)NH₂
Peptide 33

[PhAc-Tyr¹, D-Arg², Phe(pCl)⁶, Har⁹, Tpi¹⁰, Abu¹⁵, Nle²⁷, D-Arg²⁸, Har²⁹]hGH-RH(1-29)NH₂
Peptide 34

15 [PhAc-Tyr¹, D-Arg², Phe(pCl)⁶, Har⁹, 2-Nal¹⁰, Abu¹⁵, Nle²⁷, D-Arg²⁸, Har²⁹]hGH-RH(1-29)NH₂
Peptide 35

20 [PhAc-Tyr¹, D-Arg², Phe(pCl)⁶, Har⁹, Dip¹⁰, Abu¹⁵, Nle²⁷, D-Arg²⁸, Har²⁹]hGH-RH(1-29)NH₂
Peptide 36

[PhAc-Tyr¹, D-Arg², Phe(pCl)⁶, Har⁹, Phe(pNH₂)¹⁰, Abu¹⁵, Nle²⁷, D-Arg²⁸, Har²⁹]hGH-RH(1-29)NH₂
Peptide 37

25 [PhAc-Tyr¹, D-Arg², Phe(pCl)⁶, Har⁹, Trp¹⁰, Abu¹⁵, Nle²⁷, D-Arg²⁸, Har²⁹]hGH-RH(1-29)NH₂
Peptide 38

[PhAc-Tyr¹, D-Arg², Phe(pCl)⁶, Har⁹, Phe(pNO₂)¹⁰, Abu¹⁵, Nle²⁷, D-Arg²⁸, Har²⁹]hGH-RH(1-29)NH₂
Peptide 39

30 [PhAc-Tyr¹, D-Arg², Phe(pCl)⁶, Har⁹, 3-Pal¹⁰, Abu¹⁵, Nle²⁷, D-Arg²⁸, Har²⁹]hGH-RH(1-29)NH₂
Peptide 40

35 [PhAc-Tyr¹, D-Arg², Phe(pCl)⁶, Har⁹, Tyr(Et)¹⁰, Abu¹⁵, Nle²⁷, D-Arg²⁸, Har²⁹]hGH-RH(1-29)NH₂
Peptide 41

[PhAc-His¹, D-Arg², Tyr⁶, Har⁹, Bpa¹⁰, Abu¹⁵, Nle²⁷, D-Arg²⁸, Har²⁹]hGH-RH(1-29)NH₂
Peptide 42

11

[PhAc-Tyr¹, D-Arg², Phe(pCl)⁶, Arg⁹, Har¹², Abu¹⁵, Nle²⁷, D-Arg²⁸, Har²⁹]hGH-RH(1-29)NH₂
Peptide 43

5 [Hca-Tyr¹, D-Arg², Phe(pCl)⁶, Har⁹, Tyr(Me)¹⁰, Abu¹⁵, Nle²⁷, D-Arg²⁸, Har²⁹]hGH-RH(1-29)NH₂
Peptide 45

[PhAc-Tyr¹, D-Arg², Phe(pCl)⁶, Har⁹, Tyr(Me)¹⁰, Abu¹⁵, Nle²⁷, D-Arg²⁸, Har²⁹]hGH-RH(1-29)NH₂
Peptide 46

10 [Hca-Tyr¹, D-Arg², Phe(pCl)⁶, Arg⁹, Abu¹⁵, Nle²⁷, D-Arg²⁸, Har²⁹]hGH-RH(1-29)NH₂
Peptide 47

[PhAc-Tyr¹, D-Arg², Phe(pCl)⁶, Arg⁹, Abu¹⁵, Nle²⁷, D-Arg²⁸, Har²⁹]hGH-RH(1-29)NH₂
Peptide 48

15 [PhAc-Tyr¹, D-Arg², Phe(pCl)⁶, Har⁹, Tyr(Me)¹⁰, Aib¹⁵, Nle²⁷, D-Arg²⁸, Har²⁹]hGH-RH(1-29)NH₂
Peptide 49

[PhAc-Tyr¹, D-Arg², Phe(pCl)⁶, Har⁹, Tyr(Me)¹⁰, Orn¹², Abu¹⁵, Nle²⁷, D-Arg²⁸, Har²⁹]hGH-RH(1-29)NH₂
Peptide 50

[Hca-Tyr¹, D-Arg², Phe(pCl)⁶, Har⁹, Tyr(Me)¹⁰, Abu¹⁵, Nle²⁷, D-Arg²⁸, Agm²⁹]hGH-RH(1-29)
Peptide 51

25 [PhAc-Tyr¹, D-Arg², Phe(pCl)⁶, Har⁹, Tyr(Me)¹⁰, Abu¹⁵, Nle²⁷, D-Arg²⁸, Agm²⁹]hGH-RH(1-29)
Peptide 52

[Hca-Tyr¹, D-Arg², Phe(pCl)⁶, Har⁹, Tyr(Me)¹⁰, Abu¹⁵, Nle²⁷, D-Arg²⁸, Har²⁹, Har³⁰]hGH-RH(1-30)NH₂
Peptide 53

30 [Dat-Tyr¹, D-Arg², Phe(pCl)⁶, Har⁹, Tyr(Me)¹⁰, Abu¹⁵, Nle²⁷, D-Arg²⁸, Har²⁹, Har³⁰]hGH-RH(1-30)NH₂
Peptide 54

[Ipa-Tyr¹, D-Arg², Phe(pCl)⁶, Har⁹, Tyr(Me)¹⁰, Abu¹⁵, Nle²⁷, D-Arg²⁸, Har²⁹, Har³⁰]hGH-RH(1-30)NH₂
35 Peptide 55

[Hca-Tyr¹, D-Arg², Phe(pCl)⁶, Har⁹, Tyr(Me)¹⁰, Abu¹⁵, Nle²⁷, D-Arg²⁸, Har²⁹, Har³⁰]hGH-RH(1-30)NH₂
Peptide 56

12

[Hca-Tyr¹, D-Arg², Phe(pCl)⁶, Har⁹, Tyr(Me)¹⁰, Abu¹⁵, Nle²⁷, D-Arg²⁸, D-Arg²⁹, Har³⁰]hGH-RH(1-30)NH₂ Peptide 57

[Hca-Tyr¹, D-Arg², Phe(pCl)⁶, Har⁹, Tyr(Me)¹⁰, Abu¹⁵, Nle²⁷, D-Arg²⁸, Har²⁹, D-Arg³⁰]hGH-RH(1-5 30)NH₂ Peptide 58

[Hca-Tyr¹, D-Arg², Phe(pCl)⁶, Har⁹, Tyr(Me)¹⁰, Abu¹⁵, Nle²⁷, D-Arg²⁸, Har²⁹, Agm³⁰]hGH-RH(1-30) Peptide 59

10 [PhAc-Tyr¹, D-Arg², Phe(pCl)⁶, Har⁹, Tyr(Me)¹⁰, Abu¹⁵, Nle²⁷, D-Arg²⁸, Har²⁹, Agm³⁰]hGH-RH(1-30) Peptide 60

[PhAc-Tyr¹, D-Arg², Phe(pCl)⁶, Har⁹, Tyr(Me)¹⁰, His¹¹, Abu¹⁵, Nle²⁷, D-Arg²⁸, Har²⁹]hGH-RH(1-29)NH₂ Peptide 62

15

[PhAc-Tyr¹, D-Arg², Phe(pCl)⁶, Har⁹, Tyr(Me)¹⁰, Har¹¹, Abu¹⁵, Nle²⁷, D-Arg²⁸, Har²⁹]hGH-RH(1-29)NH₂ Peptide 63

[PhAc-Tyr¹, D-Arg², Phe(pCl)⁶, Har⁹, Tyr(Me)¹⁰, Amp¹¹, Abu¹⁵, Nle²⁷, D-Arg²⁸, Har²⁹]hGH-RH(1-20 29)NH₂ Peptide 64

[PhAc-Tyr¹, D-Arg², Phe(pCl)⁶, Har⁹, Tyr(Me)¹⁰, Cit¹¹, Abu¹⁵, Nle²⁷, D-Arg²⁸, Har²⁹]hGH-RH(1-29)NH₂ Peptide 65

25 [PhAc-Tyr¹, D-Arg², Phe(pCl)⁶, Har⁹, Tyr(Me)¹⁰, Abu¹⁵, His²⁰, Nle²⁷, D-Arg²⁸, Har²⁹]hGH-RH(1-29)NH₂ Peptide 84

[PhAc-Tyr¹, D-Arg², Phe(pCl)⁶, Har⁹, Tyr(Me)¹⁰, His¹¹, Abu¹⁵, His²⁰, Nle²⁷, D-Arg²⁸, Har²⁹]hGH-RH(1-29)NH₂ Peptide 85

30

[PhAc-Tyr¹, D-Arg², Phe(pCl)⁶, Arg⁹, Cit¹⁵, Nle²⁷, D-Arg²⁸, Har²⁹]hGH-RH(1-29)NH₂ Peptide 90

6. (ORIGINAL) .A peptide of claim 5 selected from the group consisting of:

35 [CH₃(CH₂)₆CO-Tyr¹, D-Arg², Phe(pCl)⁶, Arg⁹, Abu¹⁵, Nle²⁷, D-Arg²⁸, Har²⁹]hGH-RH(1-29)NH₂ Peptide 4

[HOOC(CH₂)₆CO-Tyr¹, D-Arg², Phe(pCl)⁶, Arg⁹, Abu¹⁵, Nle²⁷, D-Arg²⁸, Har²⁹]hGH-RH(1-29)NH₂ Peptide 5

40

13

[HOOC(CH₂)₈CO-Tyr¹, D-Arg², Phe(pCl)⁶, Arg⁹, Abu¹⁵, Nle²⁷, D-Arg²⁸, Har²⁹]hGH-RH(1-29)NH₂

Peptide 7

[HOOC(CH₂)₁₂CO-Tyr¹, D-Arg², Phe(pCl)⁶, Arg⁹, Abu¹⁵, Nle²⁷, D-Arg²⁸, Har²⁹]hGH-RH(1-29)NH₂

5 Peptide 11

[PhAc-Tyr¹, D-Arg², Phe(pCl)⁶, Cit⁸, Cit⁹, Abu¹⁵, Nle²⁷, D-Arg²⁸, Har²⁹]hGH-RH(1-29)NH₂

Peptide 22

10 [PhAc-Tyr¹, D-Arg², Phe(pCl)⁶, Har⁹, 2-Nal¹⁰, Abu¹⁵, Nle²⁷, D-Arg²⁸, Har²⁹]hGH-RH(1-29)NH₂

Peptide 35

[PhAc-Tyr¹, D-Arg², Phe(pCl)⁶, Har⁹, Dip¹⁰, Abu¹⁵, Nle²⁷, D-Arg²⁸, Har²⁹]hGH-RH(1-29)NH₂

Peptide 36

15

[PhAc-Tyr¹, D-Arg², Phe(pCl)⁶, Har⁹, Phe(pNO₂)¹⁰, Abu¹⁵, Nle²⁷, D-Arg²⁸, Har²⁹]hGH-RH(1-29)NH₂

Peptide 39

[PhAc-Tyr¹, D-Arg², Phe(pCl)⁶, Har⁹, Tyr(Et)¹⁰, Abu¹⁵, Nle²⁷, D-Arg²⁸, Har²⁹]hGH-RH(1-29)NH₂

20 Peptide 41

[PhAc-Tyr¹, D-Arg², Phe(pCl)⁶, Har⁹, Tyr(Me)¹⁰, His¹¹, Abu¹⁵, Nle²⁷, D-Arg²⁸, Har²⁹]hGH-RH(1-29)NH₂

Peptide 62

25 7. (ORIGINAL) A peptide of claim 5 selected from the group consisting of;

[CH₃(CH₂)₈CO-Tyr¹, D-Arg², Phe(pCl)⁶, Arg⁹, Abu¹⁵, Nle²⁷, D-Arg²⁸, Har²⁹]hGH-RH(1-29)NH₂

Peptide 4

30 [HOOC(CH₂)₈CO-Tyr¹, D-Arg², Phe(pCl)⁶, Arg⁹, Abu¹⁵, Nle²⁷, D-Arg²⁸, Har²⁹]hGH-RH(1-29)NH₂

Peptide 7

[PhAc-Tyr¹, D-Arg², Phe(pCl)⁶, Cit⁸, Arg⁹, Abu¹⁵, Nle²⁷, D-Arg²⁸, Har²⁹]hGH-RH(1-29)NH₂

Peptide 21

35 [PhAc-Tyr¹, D-Arg², Phe(pCl)⁶, Arg⁹, Amp¹⁰, Abu¹⁵, Nle²⁷, D-Arg²⁸, Har²⁹]hGH-RH(1-29)NH₂

Peptide 30

[PhAc-Tyr¹, D-Arg², Phe(pCl)⁶, Har⁹, Amp¹⁰, Abu¹⁵, Nle²⁷, D-Arg²⁸, Har²⁹]hGH-RH(1-29)NH₂

Peptide 31

40

14

[PhAc-Tyr¹, D-Arg², Phe(pCl)⁶, Har⁹, Phe(pNH₂)¹⁰, Abu¹⁵, Nle²⁷, D-Arg²⁸, Har²⁹]hGH-RH(1-29)NH₂
Peptide 37

5 [PhAc-Tyr¹, D-Arg², Phe(pCl)⁶, Har⁹, Tyr(Et)¹⁰, Abu¹⁵, Nle²⁷, D-Arg²⁸, Har²⁹]hGH-RH(1-29)NH₂
Peptide 41

[PhAc-His¹, D-Arg², Tyr⁶, Har⁹, Bpa¹⁰, Abu¹⁵, Nle²⁷, D-Arg²⁸, Har²⁹]hGH-RH(1-29)NH₂
Peptide 42

10 [PhAc-Tyr¹, D-Arg², Phe(pCl)⁶, Har⁹, Tyr(Me)¹⁰, His¹¹, Abu¹⁵, Nle²⁷, D-Arg²⁸, Har²⁹]hGH-RH(1-29)NH₂
Peptide 62

8-15 (CANCELLED)

16. The method of suppressing IGF-I or IGF-II levels in the tumor tissue of a patient having
15 a cancer carrying receptors for IGF-I by administering to said patient a suppressively effective
amount of a compound of claim 1 ~~any of claims 1, or 5~~.

17. The method of suppressing VEGF levels in the tumor tissue of a patient having a
cancer by administering to said patient a suppressively effective amount of a compound of claim 1
20 ~~any of claims 1, or 5~~.

18. The method of suppressing levels of IGF-I in a patient in need of same by
administering to said patient a suppressively effective amount of a compound of claim 1 ~~any of~~
~~claims 1, or 5~~.
25

19. The method of suppressing serum IGF-I levels in a patient having a cancer carrying
receptors for IGF-I by administering to said patient a suppressively effective amount of a
compound of claim 1 ~~any of claims 1, or 5~~.

30 20. The method of suppressing GH levels in a patient having a cancer carrying receptors
for IGF-I or GH by administering to said patient a suppressively effective amount of a compound
of claim 1 ~~any of claims 1, or 5~~.

21. The method of the treatment of a patient having a cancer carrying receptors for GH-RH
35 by administering to said patient an amount of a compound of claim 1 ~~any of claims 1, or 5~~ effective
to block said GH-RH receptors

22. A pharmacologically administrable composition for the suppression of levels of GH in
a patient consisting essentially of a compound of claim 1, ~~or 5~~ and a pharmacologically acceptable
40 carrier.

15

23. A pharmacologically administrable composition for the suppression of IGF-I or IGF-II levels in the tumor tissue of a patient having a cancer carrying receptors for IGF-I consisting essentially of a compound of claim 1, ~~or 5~~ and a pharmacologically acceptable carrier

5

24. A pharmacologically administrable composition for the suppression of VEGF levels in the tumor tissue of a patient having a cancer consisting essentially of a compound of claim 1, ~~or 5~~ and a pharmacologically acceptable carrier.

10

25. A pharmacologically administrable composition for the suppression of levels of IGF-I in a patient consisting essentially of a compound of claim 1, ~~or 5~~ and a pharmacologically acceptable carrier.

26. A pharmacologically administrable composition for the suppression of GH levels in a 15 patient having a cancer carrying receptors for IGF-I or GH consisting essentially of a compound of claim 1, ~~or 5~~ a pharmacologically acceptable carrier.

27. A pharmacologically administrable composition for the suppression of IGF-I levels in a patient having a cancer carrying receptors for IGF-I consisting essentially of a compound of claim 20 claim 1, ~~or 5~~ and a pharmacologically acceptable carrier.

28. A pharmacologically administrable composition for blocking receptors for GH-RH in a patient having a cancer carrying receptors for GH-RH consisting essentially of a compound of claim 1, ~~or 5~~ and a pharmacologically acceptable carrier.